

## Test of Instrument.

At 7h 30m a.m., app.t., I set off  $41^{\circ} 14'$  N., on the lat. arc;  $22^{\circ} 38'$  N. on the decl. arc; and determine a meridian with the solar which I find to agree with the true meridian.

At 4h 30m p.m. app. t., with the lat. arc unchanged, I set off  $22^{\circ} 40'$  N., on the decl. arc; and determine a meridian with the solar which I find to agree with the true meridian. Therefore I conclude that the adjustments of the transit are satisfactory.

Measurements on the exterior boundaries of this township were made with a 5.00 chs. steel tape, which was frequently compared with a standard 1.00 ch. steel tape.

Slope angles were determined by the use of clinometers, the adjustments of which were made by comparing its readings with those of the transits.

Throughout the survey of this township, the adjustments of the transits, were frequently examined, and tests of the solar apparatuses were made at least once a week, by comparing the results of a.m. and p.m. observations with a meridian determined by observations on Polaris.

June 12, 1922.

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Survey of the Township Line in Range 24 East, Bet. Ts. 37 and 38 N.

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Chains

Note:

Preliminary to the establishment of the S. Bdy. of T. 38 N., R. 24 E., I run a random line West, from the cor. of Tps. 37 and 38 N., Rs. 24 and 25 E, hereinafter described, setting temp. points at 40.00 and 80.00 chs. distances, and at 607.05 chs. intersect the E. Bdy. of T. 38 N., R. 23 E., at a point  $6.34$  chs. N.  $0^{\circ} 08'$  E. from cor. of secs. 25 and 36, hereafter described.

As this township exceeds in size the normal six mile township, it was necessary to create a half range.

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